

WHAT IS CLAIMED IS:

1. An output suppressing method of a plurality of dispersed power sources comprising:

5 suppressing an output of a dispersed power source when a voltage at a power receiving point of the dispersed power source among the plurality of dispersed power sources linked to a high-voltage-to-low-voltage transformer of a commercial power system exceeds an upper limit of a proper value; and

10 further suppressing outputs of the other dispersed power sources of which the voltages at power receiving points do not exceed the upper limit of the proper value.

2. The output suppressing method of the plurality of dispersed power sources as claimed in claim 1, comprising
15 the steps of:

determining whether or not the voltage at the power receiving point of each of the plurality of dispersed power sources exceeds the upper limit of the proper value;

20 suppressing the output of the dispersed power source of which the voltage at the power receiving point exceeds the upper limit of the proper value and transmitting an output suppression start signal from the dispersed power source to a management unit;

transmitting an output suppression command signal from the management unit that has received the output suppression start signal to the dispersed power sources other than the dispersed power source that has transmitted the output suppression start signal; and

suppressing the output of the dispersed power source that has received the output suppression command signal.

3. The output suppressing method of the plurality of dispersed power sources as claimed in claim 2, comprising the steps of:

canceling control of the output suppression of the dispersed power source that has transmitted the output suppression start signal, by the dispersed power source itself when the voltage at the power receiving point of the dispersed power source becomes equal to or lower than the upper limit of the proper value and transmitting an output suppression cancel signal to the management unit;

transmitting an output suppression cancel command signal from the management unit that has received the output suppression cancel signal to the dispersed power sources other than the dispersed power source that has transmitted the output suppression cancel signal; and

canceling the suppression of the output of the dispersed power source that has received the output suppression cancel command signal.

4. The output suppressing method of the plurality of dispersed power sources as claimed in claim 1, wherein

each of the dispersed power sources comprises a storage battery, stores a suppression power corresponding to the suppressed part into the storage battery inside the dispersed power source and gradually increases the suppression power to be stored.

5. A dispersed power source managing system comprising:

a plurality of dispersed power sources linked to a high-voltage-to-low-voltage transformer of a commercial power system; and

a management unit for managing the plurality of dispersed power sources; wherein

the dispersed power sources each comprises:

a DC power source; a transformation means for transforming a DC power from the DC power source into an AC power and outputting the AC power; a storage battery; a voltage detection means for detecting a voltage at a power receiving point; an output suppressing means for suppressing the AC power to be supplied to the power receiving point when the voltage at the power receiving

point exceeds an upper limit of a proper value and
supplying an electric power to the storage battery; an
output suppression canceling means for canceling the output
suppression by the output suppressing means when the
5 voltage at the power receiving point becomes equal to or
lower than the upper limit of the proper value; a
transmission means for transmitting an output suppression
start signal and an output suppression cancel signal to the
management unit on the basis of outputs of the output
10 suppressing means and the output suppression canceling
means; and a reception means for receiving an output
suppression command signal and an output suppression cancel
command signal for operating the output suppressing means
and the output suppression canceling means from the
15 management unit, and wherein

the management unit comprises:

a reception means for receiving the output
suppression start signal and the output suppression cancel
signal from each of the dispersed power sources and a
20 transmission means for transmitting the output suppression
command signal and the output suppression cancel command
signal to each of the dispersed power sources.

6. The dispersed power source managing system as
claimed in claim 5, wherein

the dispersed power sources each comprises a rectification means for rectifying an AC power from the transformation means and forming a DC power, and

5 the suppression power corresponding to the part suppressed by the output suppressing means is transformed from the AC power to a DC power by the rectification means and stored into the storage battery.

7. The dispersed power source managing system as claimed in claim 5, wherein

10 the DC power source is a solar battery.